

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>2132PCT.049</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/CA 02/ 00578</b>	International filing date (day/month/year) <b>25/04/2002</b>	(Earliest) Priority Date (day/month/year) <b>30/04/2001</b>
Applicant <b>SYN.X PHARMA, INC</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☒ contained in the international application in written form.

☒ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☒ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

**BIOPOLYMER MARKER HAVING A MOLECULAR WEIGHT OF 2056 DALTONS**

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

1  
☐ None of the figures.

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01N33/68 C07K7/08 C07K16/36

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, MEDLINE, BIOSIS, WPI Data, PAJ, SEQUENCE SEARCH, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 87 06344 A (NILSSON ULF R; NILSSON S I BO; SVENSSON KARL ERIK) 22 October 1987 (1987-10-22) page 6, line 13 - line 21 page 12, paragraph 4 - page 17, paragraph 3 ---	10-32
X	WO 91 13352 A (BRIGHAM & WOMENS HOSPITAL) 5 September 1991 (1991-09-05) page 34, line 4 - line 5 --- -/--	29-32

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*Z\* document member of the same patent family

Date of the actual completion of the international search

18 September 2002

Date of mailing of the international search report

29/10/2002

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	TANG S ET AL: "Contribution of renal secreted complement C3 to the circulating pool in humans." JOURNAL OF IMMUNOLOGY, vol. 162, no. 7, 1 April 1999 (1999-04-01), pages 4336-4341, XP002213827 ISSN: 0022-1767 page 4337, column 2, paragraph 2 - paragraph 4 ---	29-32
X	WO 98 32390 A (UAB RESEARCH FOUNDATION) 30 July 1998 (1998-07-30) example 5 ---	29,30,32
X	KOCH C ET AL: "A novel polymorphism of human complement component C3 detected by means of a monoclonal antibody." IMMUNOGENETICS. UNITED STATES 1986, vol. 23, no. 5, 1986, pages 322-325, XP008008260 ISSN: 0093-7711 the whole document ---	30,31
Y	WO 01 05422 A (KOLBE H; MALCUS C; PERRON H; SANTORO L) 25 January 2001 (2001-01-25) claims 40,44; example 10 ---	3-9, 33-35
Y	AGARWAL R ET AL: "Immunologic parameters in infective endocarditis: a prospective study." INDIAN HEART JOURNAL. INDIA 1991 MAY-JUN, vol. 43, no. 3, May 1991 (1991-05), pages 179-183, XP008008224 ISSN: 0019-4832 abstract ---	3-9, 33-35
Y	HARRISON, RICHARD A. ET AL: "Structure of C3f, a small peptide specifically released during inactivation of the third component of complement" COMPLEMENT, vol. 5, no. 1, 1988, pages 27-32, XP008007942 figure 1 ---	1,2
A	KRISTENSEN B O ET AL: "ASSOCIATION BETWEEN CORONARY HEART DISEASE AND THE COMPLEMENT C-3F GENE IN ESSENTIAL HYPERTENSION" CIRCULATION, vol. 58, no. 4, 1978, pages 622-625, XP008008221 ISSN: 0009-7322 abstract ---	3-9
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 00 49410 A (EMMERT BUCK MICHAEL; SIMONE NICOLE (US); US HEALTH (US); LIOTTA LA) 24 August 2000 (2000-08-24) claims 10,11; example 5 -----	3,8
A	US 5 538 897 A (ENG JAMES K ET AL) 23 July 1996 (1996-07-23) the whole document -----	3

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 3-9 are directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the method.

Although claim 35 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of biopolymer marker including SEQ ID NO: 1.

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Continuation of Box I.1

Claims Nos.: 3-9'partially!', 35'partially'!

Rule 39.1(iv) PCT - Diagnostic method practised on the human or animal body

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA 02/00578

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 3-9 'partially!', 35 'partially!' because they relate to subject matter not required to be searched by this Authority, namely:  
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 8706344	A	22-10-1987	SE 452065 B AU 7286887 A EP 0263161 A1 JP 63503089 T SE 8601644 A WO 8706344 A1	09-11-1987 09-11-1987 13-04-1988 10-11-1988 12-10-1987 22-10-1987
WO 9113352	A	05-09-1991	AU 649435 B2 AU 7461991 A CA 2077438 A1 EP 0517802 A1 WO 9113352 A1 US 5474927 A US 5665556 A	26-05-1994 18-09-1991 03-09-1991 16-12-1992 05-09-1991 12-12-1995 09-09-1997
WO 9832390	A	30-07-1998	US 5778895 A AU 748600 B2 AU 6250398 A EP 0973456 A1 WO 9832390 A1	14-07-1998 06-06-2002 18-08-1998 26-01-2000 30-07-1998
WO 0105422	A	25-01-2001	FR 2797402 A1 AU 6576800 A EP 1203239 A2 WO 0105422 A2	16-02-2001 05-02-2001 08-05-2002 25-01-2001
WO 0049410	A	24-08-2000	AU 3367100 A EP 1153300 A2 WO 0049410 A2	04-09-2000 14-11-2001 24-08-2000
US 5538897	A	23-07-1996	CA 2185574 A1 EP 1239288 A1 EP 0750747 A1 JP 3195358 B2 JP 9510780 T WO 9525281 A1 US 6017693 A	21-09-1995 11-09-2002 02-01-1997 06-08-2001 28-10-1997 21-09-1995 25-01-2000